

CRSP Energy Management and Marketing Office Reservoir Operations

- ☐ FIRM ELECTRIC SERVICE CONTRACT OBLIGATIONS.
 - ☐ CONTROL AREA REQUIREMENTS.
 - ☐ Other Services
-

CRSP – Reservoir Operations

□ FIRM ELECTRIC SERVICE OBLIGATIONS. (Related Activities)

1. Schedule/deliver firm electric service energy/capacity.
Example: CRSP SHP/WRP firm schedules.
 2. Operate Generation/Reservoirs in most efficient manner practicable to serve firm electric service obligations.
 3. As necessary, purchase energy to support firm electric service obligations. When surpluses are present, operate resources to sell surplus energy at best possible price “after firm obligations are met”.
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Salt Lake City Area Integrated Projects Post-2004 Allocations

Table Revised to Show Post 2004 Allocations as provided in FR 69 29135.*

Energy Allocations Shown are for FY 2009-2024 Period. FY 05, 06, 07, 08 Energy Allocation Percentages shown on Last Page.*

Division	Winter Season		Summer Season	
	Capacity (MW)	Energy (MWh)	Capacity (MW)	Energy (MWh)
Southern Division				
Desert Southwest	157.107	291,680.990	246.534	447,013.255
Southern Division Total	157.107	291,680.990	246.534	447,013.255
Northern Division				
Rocky Mountain	499.922	954,705.862	460.621	859,743.869
CRSP MC	746.747	1,311,777.188	610.624	1,086,865.045
Northern Division Total	1,246.669	2,266,483.050	1,071.245	1,946,608.914
Total, All Areas #	1,403.776	2,558,164.040	1,317.779	2,393,622.169

State	Winter Season		Summer Season	
	Capacity (MW)	Energy (MWh)	Capacity (MW)	Energy (MWh)
Arizona	201.031	381,428.544	290.054	532,465.109
Colorado	491.924	940,367.972	453.620	847,375.607
Nevada	43.882	78,695.041	44.020	78,999.856
New Mexico	251.051	428,840.210	214.762	374,659.189
Utah	398.071	696,785.435	300.419	533,411.050
Wyoming	17.817	32,046.837	14.903	26,711.359
Total, All States #	1,403.776	2,558,164.040	1,317.779	2,393,622.169

Reclamation Water Projects	Winter Season		Summer Season	
	Capacity (MW)	Energy (MWh)	Capacity (MW)	Energy (MWh)
Dolores Water Cons. Dist @	0.500	392.360	8.295	14,928.540
Heber-2+	0.600	1,249.667	0.600	1,287.534
Navajo Agricultural Products Industry @	0.500	2,212.425	22.500	48,833.990
NAPI Allocation to NTUA @	12.000	52,692.000	12.000	17,868.000
Silt Water Cons. Dist @	0.000	0.000	0.750	1,606.405
Utah Water Cons Dist @	0.070	82.936	0.520	524.076
Ute Mountain Ute Tribe @	1.500	0.000	1.500	0.000
Wasatch County Water Efficiency Proj	3.000 #	0.000	3.000 #	13,176.000
Dutch John Privatization Allocation @	0.189	532.179	0.199	467.821
Station and Camp Service @	0.750	2,789.376	1.000	4,310.581
Total, Reclamation Proj.	19.109	59,950.942	50.364	103,002.947

@ Reclamation Water Project Energy Loads are estimates based on historic/estimated averages.

Dolores and Ute Mtn Ute have a seven month summer season (April 1 - Oct 31).

Dolores has a reservation to receive up to 1.4 MW in the Winter and 13.7 in the Summer.

Heber receives 600 kW as compensation for their power plant that was inundated by a Reclamation Dam.

NAPI has an eight month summer season (Mar. 1 - Oct. 30) and has a reservation to receive up to 87 MW in the Summer and .5 MW in the NTUA is currently receiving 12 MW from NAPI's 87 MW NIIP allocation for related agricultural uses from March through October

Silt has the option to receive up to .75 MW in the Summer.

Utah has the option to receive up to 2.63 MW in both the Winter and Summer Seasons.

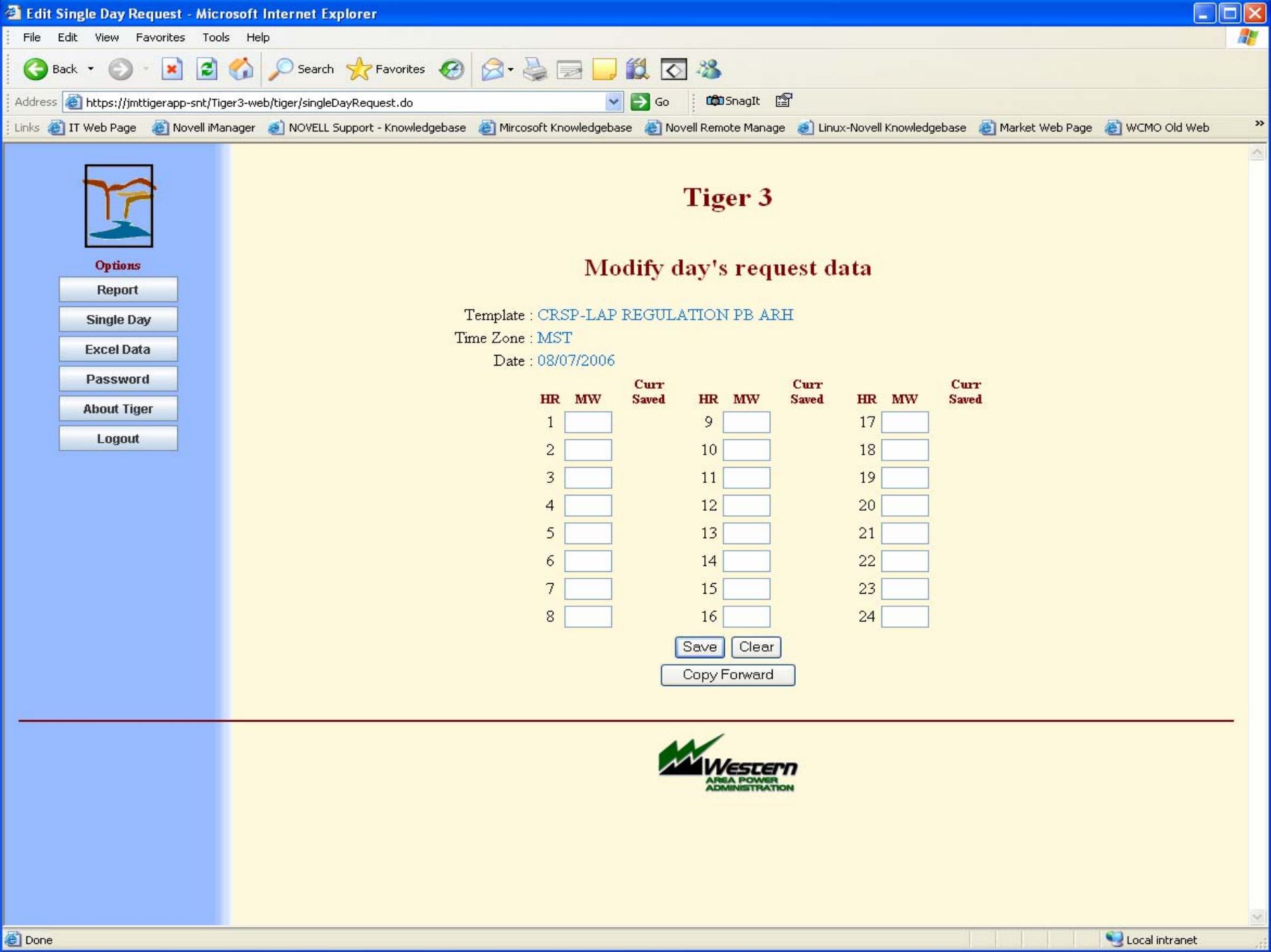
Ute Mountain Ute has no transmission service to receive their allocation at this time.

Dutch John receives 1,000,000 kWh/year, as provided for in legislation privatizing the town; it is delivered and billed to Bridger Valley Electric Association, but the allocation belongs to Daguer County, Utah.

Wasatch County Water Efficiency Project will begin receiving power in Summer 2000. Maximum demand is 3 MW.

The "Total, All Areas" and "Total, All States" does not include the Reclamation Water Projects.

Heber-2 is included in UAMPS's subtotal, but not in the Utah, Salt Lake City Area, or All Area totals.



Options

- Report
- Single Day
- Excel Data
- Password
- About Tiger
- Logout

Tiger 3

Modify day's request data

Template : CRSP-LAP REGULATION PB ARH
Time Zone : MST
Date : 08/07/2006

HR	MW	Curr Saved	HR	MW	Curr Saved	HR	MW	Curr Saved
1	<input type="text"/>	<input type="checkbox"/>	9	<input type="text"/>	<input type="checkbox"/>	17	<input type="text"/>	<input type="checkbox"/>
2	<input type="text"/>	<input type="checkbox"/>	10	<input type="text"/>	<input type="checkbox"/>	18	<input type="text"/>	<input type="checkbox"/>
3	<input type="text"/>	<input type="checkbox"/>	11	<input type="text"/>	<input type="checkbox"/>	19	<input type="text"/>	<input type="checkbox"/>
4	<input type="text"/>	<input type="checkbox"/>	12	<input type="text"/>	<input type="checkbox"/>	20	<input type="text"/>	<input type="checkbox"/>
5	<input type="text"/>	<input type="checkbox"/>	13	<input type="text"/>	<input type="checkbox"/>	21	<input type="text"/>	<input type="checkbox"/>
6	<input type="text"/>	<input type="checkbox"/>	14	<input type="text"/>	<input type="checkbox"/>	22	<input type="text"/>	<input type="checkbox"/>
7	<input type="text"/>	<input type="checkbox"/>	15	<input type="text"/>	<input type="checkbox"/>	23	<input type="text"/>	<input type="checkbox"/>
8	<input type="text"/>	<input type="checkbox"/>	16	<input type="text"/>	<input type="checkbox"/>	24	<input type="text"/>	<input type="checkbox"/>

Save Clear
Copy Forward



CRSP – Aspinall Reservoir Operations

☐ Blue Mesa – Water Storage Facility

Daily generation is scheduled to release water according to Gunnison River flow requirements below Crystal unless an unusual system event occurs requiring additional generation.

☐ Morrow Point – Power Peaking Facility

Daily generation levels is dependant on Crystal reservoir elevation

restrictions and/or availability(wet and dry season modes of operation)

☐ Crystal – Re-regulation Reservoir

Generation is flat loaded according to Gunnison River flow requirements.

FileEditViewInsertFormatToolsWindowHelp

SnagIt

Window

A1=VLOOKUP(WEEKDAY(A2,1),AL1:AM9,2,FALSE)

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Today

August 8, 2006

Admin

Clean Up

RAMP CHECK

2400 PREV.

0100 TODAY

DIFF

Upload Generation AND Reserves Data to ISA (Phoenix users only)

ALL SCHEDULES ARE SHOWN IN MOUNTAIN STANDARD TIME (MST)

MINIMUM 8,000 CFS HE 0800-HE 1900

GC OPERATING CRITERIA

Target

Actual

MW**

Maximum Release Rate

Minimum Release Rate

Ramping Rate, Up

Ramping Rate, Down

Daily Fluctuation Limit

Power Conv.

Water Conv.

*GC MW Values Change Based on the Power Conversion Factor

Upload Generation Data to TIGER

800 CFS

2100 CFS

1730 CFS

Get Net Schedules, Net Resources, AHP Purchases and AHP Firm Load data from TIGER

Get Forecasted Load (Current)

Get Forecasted Load (Archived)

Retrieve Reserves data from TIGER

Date:

August 8, 2006

FIRM CAPACITY SALES

FIRM ENERGY SALES

UNIT CONTINGENT SALES

NON-FIRM SALES

FIRM ELECTRIC SERVICE SALES

FIRM CAPACITY PURCHASES

FIRM ENERGY PURCHASES

UNIT CONTINGENT PURCHASES

NON-FIRM PURCHASES

0100

0200

0300

0400

0500

0600

0700

0800

0900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

MST

15,963

0

(16,021)

(58)

15,007

0

14,488

2,160

455

0

87

8,546

0

2,704

0

816

TIGERaudit

ISAwork

WATER

WKDY

SAT

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Ready

CRSP

LAP

CRSP Reserves

Data updated at: Fri Aug 04 07:50:09 MST 2006

CRSP	Curr Gen	Elev	Turbine Flow
Glen Canyon 345	319		
Glen Canyon 230	105		
Glen Canyon TOTAL	423	3606.40	0
Flaming Gorge	25	6024.29	828
Blue Mesa	2	7512.56	
Morrow Point	15	7155.11	
Crystal	30	6741.34	2092
Fontenelle	8	6499.94	1106
Upper Molina	0		10
Lower Molina	-0		11
Molina TOTAL	0		
TOTAL CRSP Gen	503		

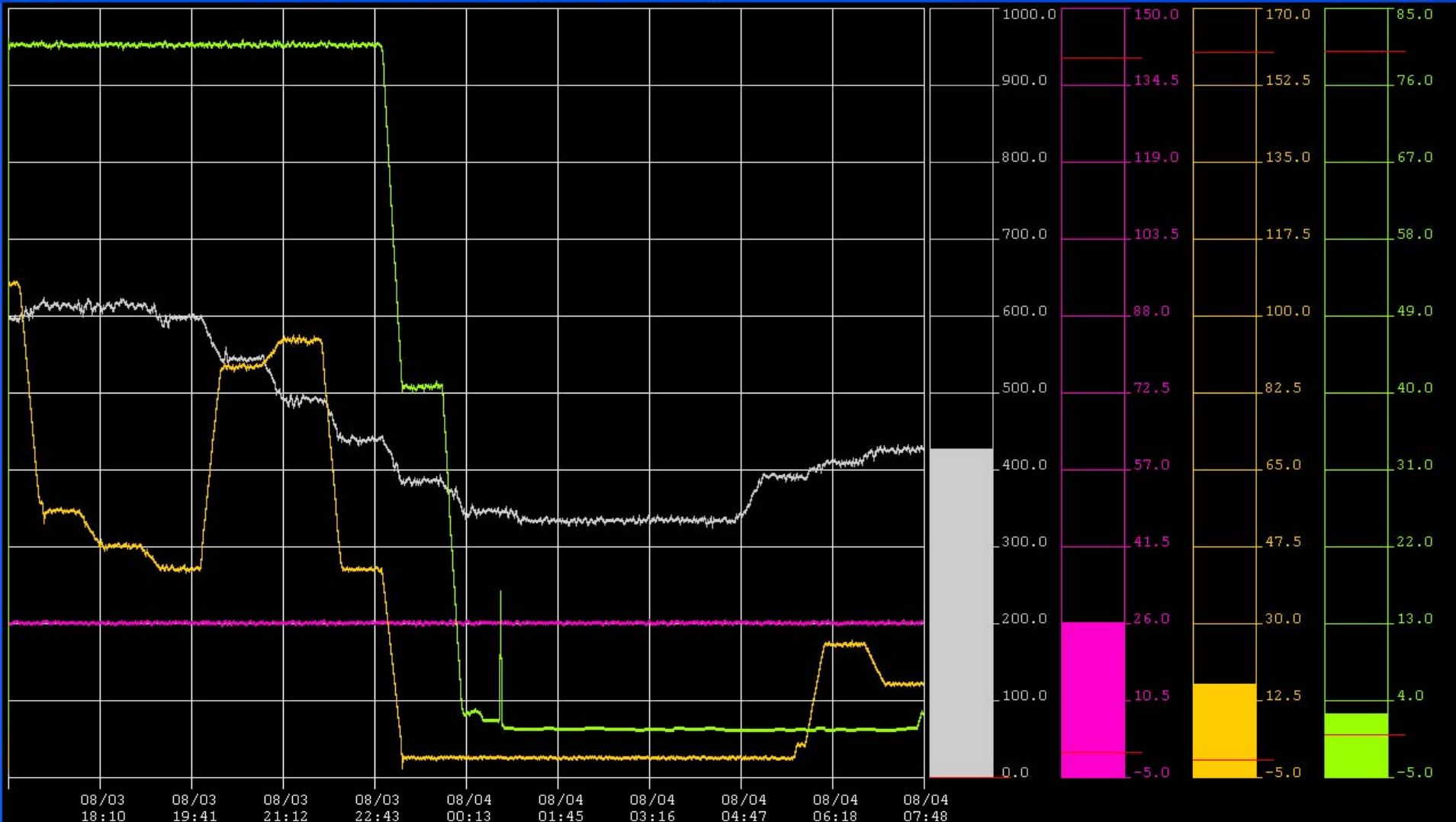
Entity Name	ACE
Basin	-5.12
WMPA	6.71
LAP ACE DELTA	-11.75

Entity Name	MW
Lar. River #2	552.44
Lar. River #3	550.62
TOTAL LRS	1103.06
Arvada Gen	.00
Barber Gen	.00
Hartzog Gen	.00

Entity Name	LastHr	CurrHr	Delta
GC Plant	302.00	314.00	12.00
Elephant Butte		4.39	
CRSP TOT2A Limit		415.68	
CRSP TOT2A Sched.		-17.00	
LAP TOT4B StoN Whl			
LAP TOT4B NtoS Whl			
WACM Inad. Payback			

WACM DYN	-12.03
WACM ACE	.00

Entity Name	MW	Status
McPhee (Gen)	1.01	Normal
Towoac (Gen)	3.19	Normal
Cahone	.64	Normal
Dove Creek	.34	Normal
Fairview	.79	Normal
Great Cut	.41	Normal
Pleasant View	.78	Normal
Dolores Meters TOTAL	.03	
Burnham Tap	1.56	
Gallegos Pump	5.35	
Burnham/Gallegos Total	6.91	
NAPI Tie	7.19	
KUTZ	3.23	
NAPI/Kutz Total	10.42	



08/03 18:10 08/03 19:41 08/03 21:12 08/03 22:43 08/04 00:13 08/04 01:45 08/04 03:16 08/04 04:47 08/04 06:18 08/04 07:48

Latest
Value

Scale

Low High

Shading

Low High

Values At
2006-08-04 07:46:13.0

GC_Gen

419.75

0.0

1000.0

0.0

1150.0

422.24

FG_Gen

25.147

-5.0

150.0

0.0

140.0

24.8823

MP_Gen

14.9265

-5.0

170.0

-1.0

160.0

15.1471

BM_Gen

1.81006

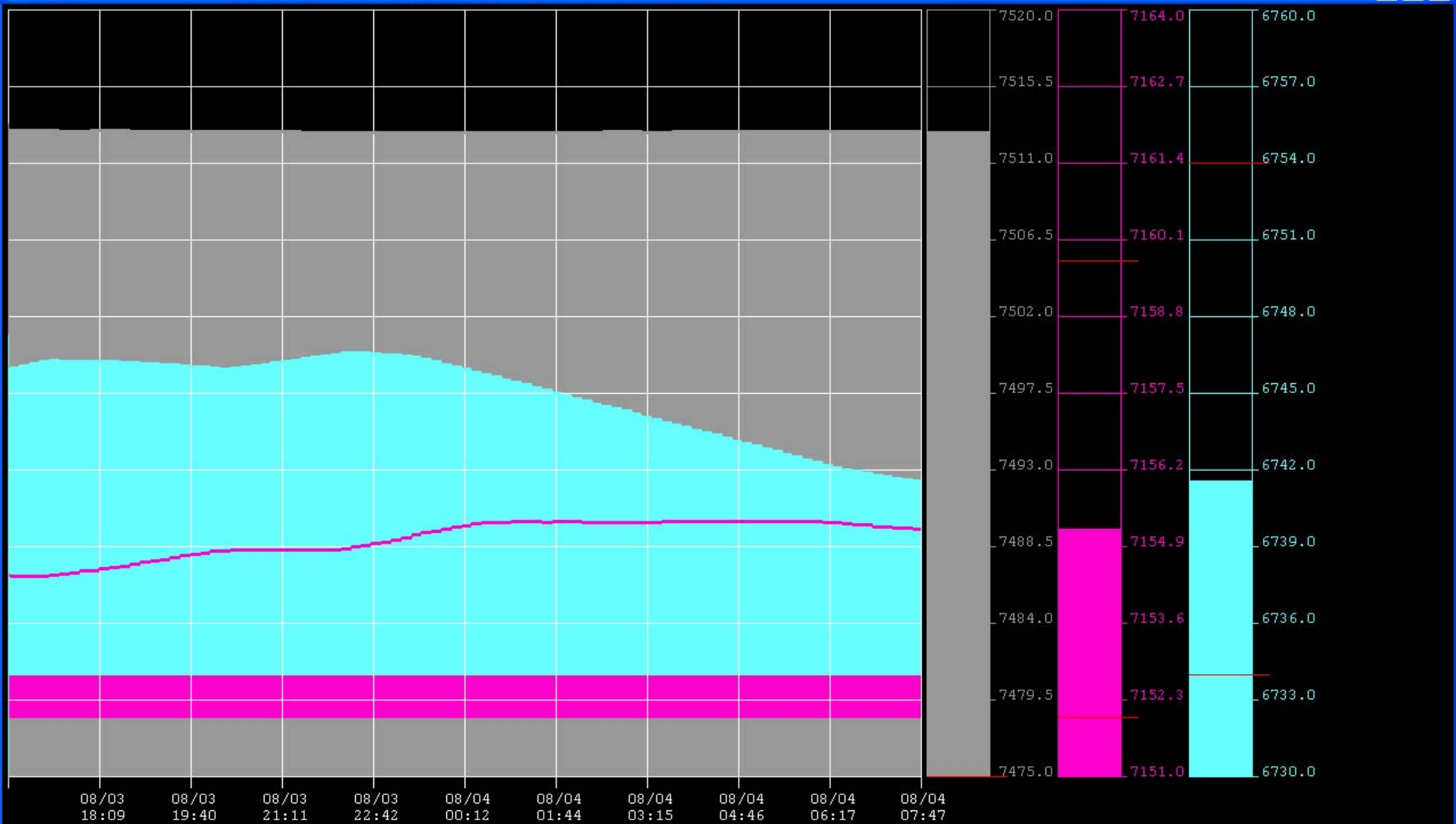
-5.0

85.0

0.0

80.0

1.67788



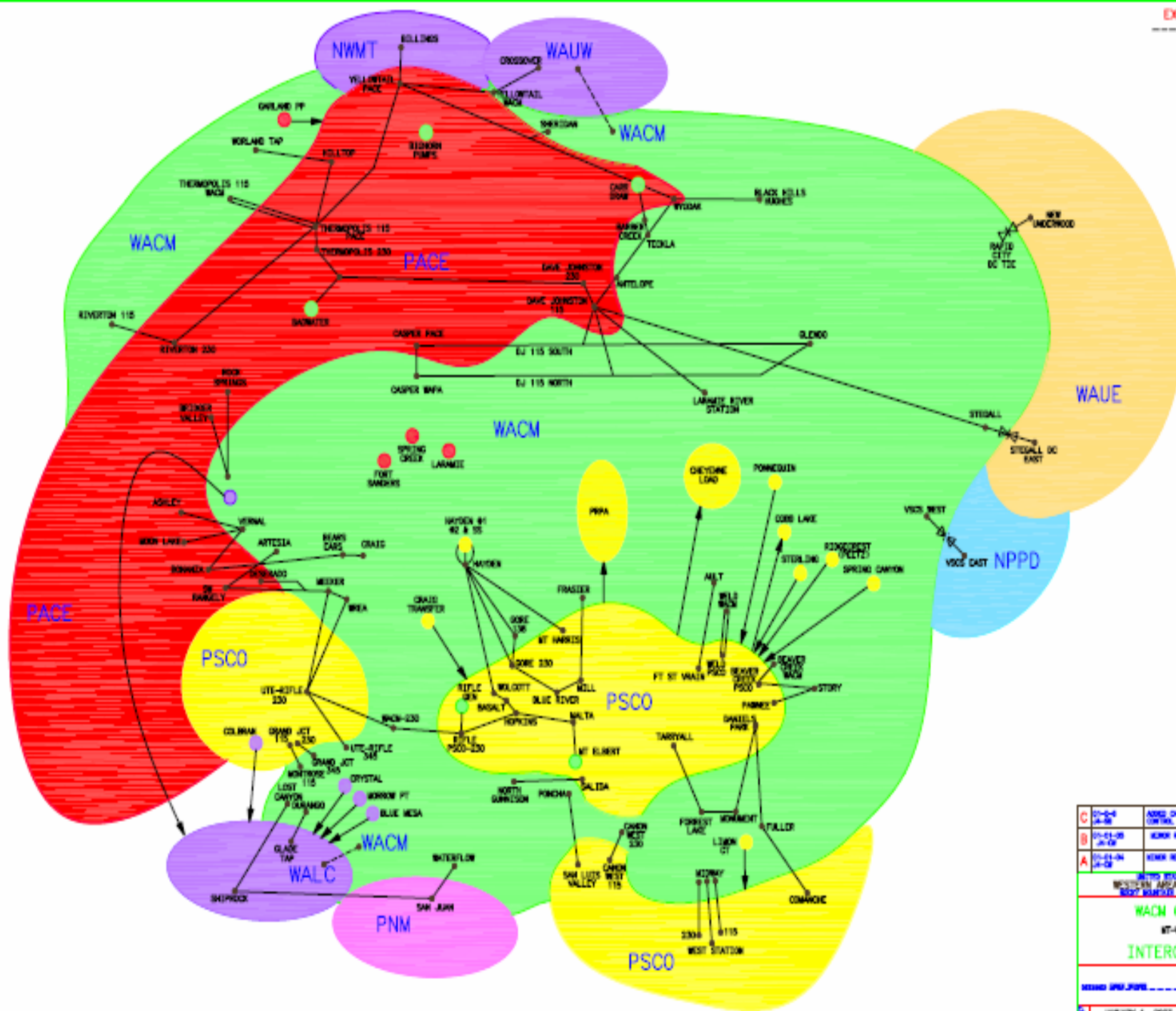
		Latest		Scale		Shading		Values At
		Value		Low	High	Low	High	
<div>14hrs</div>	Blue_Mesa_Elev	7512.56		7475.0	7520.0	7475.0	7600.0	7512.48
<div>28hrs</div>	Morrow_Point_Elev	7155.11		7151.0	7164.0	7152.0	7159.75	7155.01
<div>42hrs</div>	Crystal_Elev	6741.34		6730.0	6760.0	6734.0	6754.0	6746.2
<div>56hrs</div>								

CRSP – EMMO

Core Business Activities

☐ CONTROL AREA ACTIVITIES

1. Maintain sufficient reserve and regulation margins in Merchant scheduled generation resources as required.
 2. Operate generation resources to protect interconnected transmission assets.
 3. Operate generation resources, purchase and or sell energy as required by the control area reliability dispatcher to maintain control area balance & reliability criteria.
 4. Re-balance reservoir elevations to daily targets as required Maintain sufficient reserve and regulation margins in Merchant scheduled generation resources as required.
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C	01-01-01 -01-01	ADDG CHRG. DRWG., STEELING & SPEEDING CHRG. CONTROL AREAS, ADJUSTED TRAC. CONTROL AREA.
B	01-01-01 -01-01	REMR REVISIONS, ADDG EIGHTH FMP.
A	01-01-01 -01-01	REMR REVISIONS - ADDG RAPID CITY DC TIE

UNITED STATES DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION
8007 WILMISTE BOULEVARD - LOWELL, CO. 80440

WACN CONTROL AREA

NT-WY-UT-CO-NE-NM

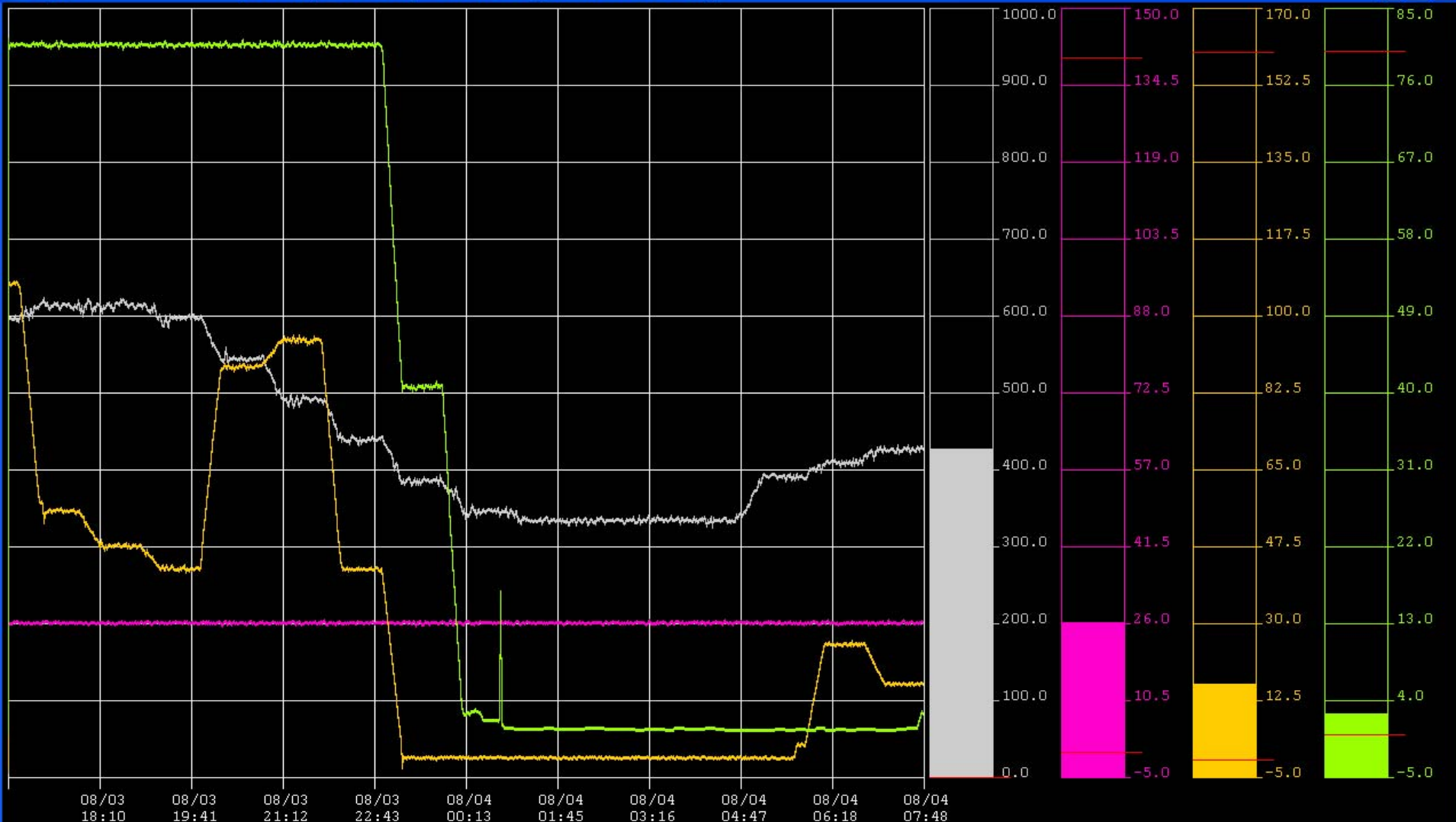
INTERCONNECTIONS

ISSUED BY: JPD		APPROVED BY: JPD	
		SPECIAL AGENT IN CHARGE	
JANUARY 1, 2003	SYD J	6-1	

CRSP LAP CRSP Reserves

Data updated at: Fri Aug 04 07:50:35 MST 2006

CRSP Reserves Entity name	Capacity	On-Line Capacity	MW	Spinning Reserves	Non Spin Reserves	MV	Elev	CFS	Available
Glen Canyon 345 Unit 1	120	120	107	13		-21			Yes
Glen Canyon 345 Unit 2	121	0	0		121	0			Yes
Glen Canyon 345 Unit 3	119	119	106	13		-22			Yes
Glen Canyon 345 Unit 4	122	0	0		122	0			Yes
Glen Canyon 345 Unit 5	121	0	0		121	-0			Yes
Glen Canyon 345 Unit 6	121	121	106	15		-22			Yes
TOTAL GC 345 GEN			319						
Glen Canyon 230 Unit 7	128	128	105	23		-13			Yes
Glen Canyon 230 Unit 8	121	0	0		121	0			Yes
TOTAL GC 230 GEN			106						
Glen Canyon TOTALS			425				3606	0	
Flaming Gorge Unit 1	45	0	0		45	0			Yes
Flaming Gorge Unit 2	45	0	0		45	0			Yes
Flaming Gorge Unit 3	45	45	25	20		1			Yes
Flaming Gorge TOTALS			25				6024	828	
Blue Mesa Unit 1	40	40	1	39		1			Yes
Blue Mesa Unit 2	40	40	1	39		0			Yes
Blue Mesa TOTALS			2				7513	45	
Morrow Point Unit 1	80	0	0		80	0			Yes
Morrow Point Unit 2	80	80	15	65		0			Yes
Morrow Point TOTALS			15				7155	0	
Crystal	32	32	30	2		0	6741	2092	Yes
Fontenelle	12	12	8	4		-1	6500	1106	Yes
Upper Molina	9	9	0	9				10	Yes
Lower Molina		5	0					11	Yes
Elephant Butte			4						
Deer Creek			5						
Spin / Non-Spin Totals				243	655				



	Latest Value	Scale Low	Scale High	Shading Low	Shading High	Values At 2006-08-04 07:46:13.0
GC_Gen	419.75	0.0	1000.0	0.0	1150.0	422.24
FG_Gen	25.147	-5.0	150.0	0.0	140.0	24.8823
ME_Gen	14.9265	-5.0	170.0	-1.0	160.0	15.1471
BM_Gen	1.81006	-5.0	85.0	0.0	80.0	1.67788

CRSP – EMMO

Core Business Activities

☐ CONTRACT MERCHANT ACTIVITIES (Basin, RMGC, Page, WMPA)

1. Monitor load/resource balance to maintain within operating imbalance limits.
 2. Make energy purchases at best possible price as required to maintain load balance within control area.
 3. Schedule resources as required following guidelines submitted by contractor.
 4. Make surplus sales at best possible price
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AC20	-279
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD		
1	MONDAY				8/7/06	BEPC & RMGC CUTLIST TOOL																								DATE: 8/7		
2						0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400					
3	LRS # 2 Capability					550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	
4	LRS # 3 Capability					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	BEPC SHARE OF LRS UNIT CAPABILITY					326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	
6	Presched Firm BEPC Resource(LAP firm total)					27	27	27	27	27	32	42	48	50	52	54	50	63	71	62	45	39	60	57	37	27	27	27	27	27	27	
7	Add. RMGC Resource from WMPA					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Hartzog Distributed Generation				MAX of	15 MW	DEAL #	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Arvada Distributed Generation				MAX of	15 MW	DEAL #	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	Barber Creek Dist. Generation				MAX of	15 MW	DEAL #	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Additional BEPC Resource - Rpd City Tie					19268		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Additional BEPC Resource - Stegall Tie					19268		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	BEPC Mt E. Pump/Storage Operation					19268	38055	(48)	(43)	(32)	(40)																		(3)	(14)		
14	BEPC Mt E Generation Operation					19277	38054					14	22	21	12	8	8	14	6		17	17	17	9	22	16						
15	Control Area Over Generation					19825	25215																									
16	Montrose Purchase Real-Time							238	230	236	240	230	240	230																		
17	Preschedule Purchase				See Purchases Tab																											
18	BEPC resource from Mile City					19912		13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
19	TOTAL BEPC and RMGC RESOURCES					556	553	570	566	596	625	633	408	401	399	401	403	408	410	418	401	395	408	418	392	363	352					
20	Surplus Update Only				SURPLUS/DEFICIT	0	0	0	0	0	0	0	-240	-240	-239	-240	-240	-240	-240	-240	-239	-240	-240	-240	-246	-280	-279					
21	Alternate deliveries of PSCo 3 with TOT 3 constraints					25	20	20	20	-14	-20	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-14	-15	-15	-15	-15	-20	29	31			
22						0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400					
23						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	BEPC to RMGC RESOURCE				real-time	AU	25960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	SCHEDULES used to generate				real-time	STY	25961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	RMGC Sales				real-time	SCS	25962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27					real-time	SG	25963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	Real-Time Upload to ISA				real-time	DJ	25964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29						Update Load																										
30						Clear Red																										
31						Clear Red																										
32	BEPC - PSCo UNIT CONTINGENT					0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400					
33	BEPC>PSCo Contract #1 and #2				presched	AU	6013	60	60	60	60	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	60	60			
34	Contract Max at Full LRS 2 and 3				real-time			60	60	60	60	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	60	60				
35	170					109614/15/16	19256																									
36	BEPC>PSCo Contract #3				presched	SCS	6110																									
37	SEE NOTE PAGE				real-time			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
38	100% LOAD FACTOR					109614/15/16	19257																									
39	Contract MUST TAKE w/ Full LRSs =				presched	AU	6043	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
40	30				real-time			15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
41					TAG#		19259																									
42	RMGC UNIT CONTINGENT				WSPP - Sched B	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400					
43	BASIN > UGP				presched	LRS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
44	Tag #				real-time			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45	1HR FIRM CSU>BASIN																														\$	
46	BASIN > UGP				presched	SG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47	Tag #				real-time			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
48	SYS CON																														\$	
49	BASIN > UGP																															